

12/10/01

JCS28 U.S. PTO

**UTILITY
PATENT APPLICATION
TRANSMITTAL**(Only for new nonprovisional applications under
37 C.F.R. 1.53(b))

Attorney Docket No.

2856.1001-011

First Named Inventor or
Application Identifier

H. William Harris

Express Mail Label No.

EV005367825US

Title of
Invention

Polycation-Sensing Receptor in Aquatic Species & Methods of Use Thereof

JCS80 U.S. PTO
10/16496

12/10/01

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

1. ☐ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)
2. ☒ Specification **Total Pages 55**
(preferred arrangement set forth below)
- Descriptive title of the invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) **Total Sheets [42]**
☐ Fig. of the Drawings for Publication ☐
☐ No Figure to be Published
4. ☒ Oath or Declaration **Total Pages [9]**
- a. ☐ Newly executed (original or copy)
 - b. ☒ Copy from a prior application (37 C.F.R. 1.63(d))
(for continuation/divisional with Box 17 completed)
 - i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting
inventor(s) named in the prior
application, see 37 C.F.R. 1.63(d)(2)
and 1.33(b).
5. ☐ CD-ROM or CD-R in duplicate, large table or Computer
Program (Appendix)

6. ☒ Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
- a. ☐ Computer Readable Form
 - b. ☒ Paper Copy (identical to computer copy)
21 Pages
 - c. ☒ Statements verifying identity of above copies
Request Under 37 C.F.R. 1.821(e)

ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & documents)
☒ Assignee - Brigham and Women's Hospital
8. ☐ Power of Attorney ☐ 37 C.F.R. 3.73(b) Statement
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
11. ☐ Preliminary Amendment
12. ☒ Return Receipt Postcard
13. ☐ Small Entity ☐ Statement filed in prior application,
Statement(s) status still proper and desired
- 14a. ☐ Foreign Priority Claim under 35 U.S.C. §119 or 365
- 14b. ☐ Certified Copy of Priority Document(s)
15. ☐ Nonpublication Request (check parent application)
16. ☒ Other Remarks

17. If a **CONTINUING APPLICATION**, check appropriate box; supply the requisite information.

☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 09/715,538

Prior application information: Examiner: E. Lazar Wesley

Group Art Unit: 1646

The entire disclosure of the prior application is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference.

(Add standard Related Applications section with incorporation by reference to specification or update same)

18. CORRESPONDENCE ADDRESS

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Signature	<i>Antoinette G. Giugliano</i>	Date	12/16/01
Submitted by Typed or Printed Name	Antoinette G. Giugliano	Reg. Number	42,582

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: H. Williams Harris, Edward M. Brown, and Steven C. Hebert

Divisional Application of

Application No.: 09/715,538

Filed: November 17, 2000

For: POLYCATION-SENSING RECEPTOR IN AQUATIC SPECIES AND METHODS
OF USE THEREOF

Date: 12/10/01

EXPRESS MAIL LABEL NO. EV 005367825US

REMARKS

Box PATENT APPLICATION

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

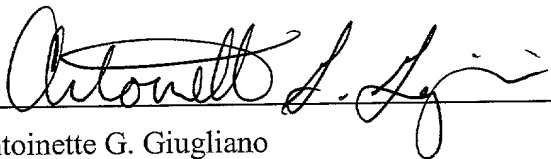
The above-captioned application is a divisional of application number 09/715,538 filed on November 17, 2000 to which priority is claimed under 35 U.S.C. §120.

The related applications paragraph has been revised to include the parent application.

The specification has been revised to incorporate amendments entered in the parent application. Claims 1-9 of the above referenced case are drawn to the polypeptides and antibodies thereto described in the specification. Support for the claim can be found throughout the specification and in particular, on page 18, line 7-10 (e.g., percent identity); on page 19, lines 16-27 (e.g., sense ion concentrations); on page 49, line 1 through page 51, line 13; (e.g., percentage of total fat, protein and moisture of muscle). Claim 18 of Application No. 09/162, 021 has been renumbered as claim 10. No new matter has been added.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By  _____

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Dated: 12/10/01

TELETYPE UNIT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): H. William Harris, Edward M. Brown, and Steven C. Hebert

Divisional of:

Application No.: 09/715,538

Filed: November 17, 2000

Title: POLYCATION-SENSING RECEPTOR IN AQUATIC SPECIES AND
METHODS OF USE THEREOF

Date: <u>12/10/01</u>	Express Mail Label No. <u>EV 005367825US</u>
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TRANSMITTAL OF FORMAL DRAWINGS

Assistant Commissioner for Patents

Washington, D.C., 20231

Sir:

Transmitted herewith are formal drawings, sheets 1/42 - 42/42, figures 1A-F, 2A-F, 3A-B, 4A-E, 5A-E, 6, 7A-B, 8, 9A-D, 10, 11, 12, 13, 14, 15, 16A-b, 17, 18A-B, 19, 20, 21A-B, 22, 23, 24A-B, 25, 26, 27, 28A-B, 29, 30A-C, and 31A-B for filing in the subject patent application.

Acceptance of the formal drawings is respectfully requested.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Antoinette G. Giugliano
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FOOTNOTES

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): H. William Harris, Edward M. Brown, and Steven C. Hebert

Divisional of:

Application No.: 09/715,538

Filed: November 17, 2000

Title: POLYCATION-SENSING RECEPTOR IN AQUATIC SPECIES AND
METHODS OF USE THEREOF

Date: 12/10/01 Express Mail Label No. EV005367825US

REQUEST UNDER 37 C.F.R. §1.821(e)

Assistant Commissioner for Patents
BOX PATENT APPLICATION
Washington, DC 20231

Sir:

Pursuant to 37 C.F.R. §1.821(e), it is hereby requested that the computer readable form of the Substitute Sequence Listing filed on May 2, 2001 in prior Application No. 09/162,021, filed September 28, 1998, serve as the computer readable form for the subject application.

As required by 37 C.F.R. §1.821(f), the undersigned hereby states that the content of the Sequence Listing in paper form filed concurrently herewith and the content of the above-referenced computer readable form of the Sequence Listing filed in prior Application No. 09/162,021 are the same.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

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Date: 12/10/01